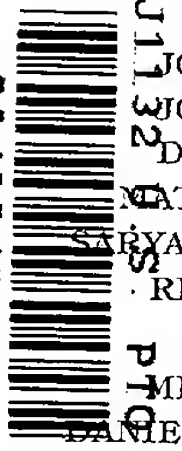


02/20/02



ROBERT E. BUSHNELL*†

JOSEPH G. SEEGER°
JOHN C. BROSKY°+*
DARREN R. CREW+*
MATTHEW J. LESTINA‡*
ADYADVINDER S. SAHOTA‡*
RICHARD H. STERN°

MICHAEL D. PARKER
DANIEL A. GESELOWITZ, PH.D.
(REG. PATENT AGENTS)

- † ADMITTED IN MARYLAND
- ° ADMITTED IN VIRGINIA
- + ADMITTED IN PENNSYLVANIA
- ‡ ADMITTED IN NEW YORK
- ° ADMITTED IN CONNECTICUT
- * NOT ADMITTED IN D.C.

R. E. BUSHNELL

ATTORNEY AT LAW

1522 K STREET, N.W., SUITE 300
WASHINGTON, D.C. 20005-1202
UNITED STATES OF AMERICA

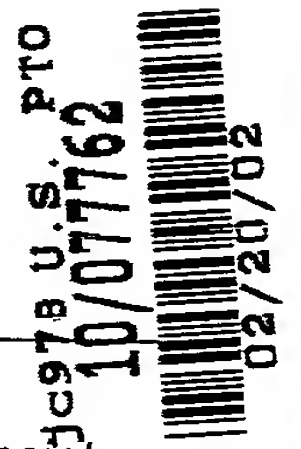
20 February 2002

INTELLECTUAL PROPERTY LAW

TELEPHONE (202) 408-9040
FACSIMILE (202) 289-7100
FACSIMILE (202) 628-8835
FACSIMILE (410) 747-0022

E-MAIL: REBUSHNELL@AOL.COM

- ☐ U.S. Postal Service
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- ☐ Via Facsimile No. _____
- ☐ Via E-Mail Attachment
- ☐ Please Acknowledge Receipt



Assistant Commissioner for Patents
Washington, D.C. 20231

Attorney Docket: P56645

Sir:

Submitted herewith is the following patent application:

Inventor:

- | | |
|---------------------|-------------------|
| 1) DONG-KYUN SEO | 5) SUNG-HWAN MOON |
| 2) JONG-SEO CHOI | 6) YOON-CHANG KIM |
| 3) KYOUNG-CHEON SON | 7) SEUNG-KWON HAN |
| 4) KYU-NAM JOO | 8) BU-CHUL SIN |

Title:

**METAL CATHODE AND INDIRECTLY HEATED CATHODE
ASSEMBLY HAVING THE SAME**

Please find attached hereto an application for patent which includes: Specification and Abstract, Claims, original Declaration And Power of Attorney, Assignment, and a certified copy of the foreign priority document identified below:

Verified Showing of Small Entity Status: **NO**

Drawings: Formal drawings, 3 sheets, Figures 1A through 3B

Claim of priority under 35 U.S.C. §119: **YES**

** The Republic Of Korea Application No. 2001-8753 filed on 21 February 2001.

FEE (see formula below): CHECKS ARE ENCLOSED (#42063 and #42064)

Basic Fee \$370/740 **\$740.00**

Additional Fees:

Total number of claims in excess of 20: ____ times \$9/18 . **\$0.00**

Number of independent claims in excess of 3: ____ times \$42/84 **\$0.00**

Multiple Dependent Claims \$140/280 **\$0.00**

An Assignment is likewise enclosed: Recording Fee \$40 . . **\$40.00**

Filing Non-English specification **\$0.00**

TOTAL FEES FOR THE ABOVE APPLICATION **\$780.00**

1007762-022002

Assistant Commissioner for Patents
20 February 2002
Page Two

Docket No.: P56645

Inventor: 1) DONG-KYUN SEO 5) SUNG-HWAN MOON
 2) JONG-SEO CHOI 6) YOON-CHANG KIM
 3) KYOUNG-CHEON SON 7) SEUNG-KWON HAN
 4) KYU-NAM JOO 8) BU-CHUL SIN

Title: METAL CATHODE AND INDIRECTLY HEATED CATHODE
 ASSEMBLY HAVING THE SAME

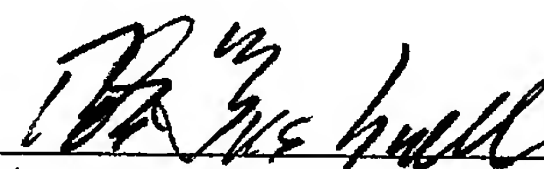
Assistant Commissioner is authorized to charge our Deposit Account No. 02-4943 for any additional charges necessary towards payment of the filing fee for the above-referenced application. Please notify the undersigned attorney of any transaction regarding our Deposit Account.

In view of the above, it is requested that this application be accorded a filing date pursuant to 37 CFR 1.53(b).

Please address all correspondence to:

Robert E. Bushnell
1522 K Street, N.W.
Suite 300
Washington, D.C. 20005

Respectfully submitted,



Robert E. Bushnell
(Registration No. 27,774)
Payor No.: 008-439
Attorney for the Applicant
1522 K Street, N.W.
Suite 300
Washington, D.C. 20005

Telephone: (202) 408-9040
Telefacsimile: (202) 628-0755

REB/sb

02/20/02
J1132 U.S.

FEE TRANSMITTAL

Patent fees are subject to annual revision.

Complete If Known

Application Number	To be Assigned
Filing Date	20 February 2002
First Named Inventor	DONG-KYUN SEO et al.
Examiner Name	To be Assigned
Group/Art Unit	To be Assigned
Attorney Docket No.	P56645

TOTAL AMOUNT OF PAYMENT

(\$) 780.00

METHOD OF PAYMENT (check one)

1. ☐ The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:

Deposit Account Number: 02-4943
Deposit Account Number: _____

☐ Charge Any Additional Fee Required Under 37 C.F.R. §1.16 and 1.17.

☐ Applicant claims small entity status. See 37 CFR 1.27

2. Payment Enclosed: (CHECK #42063 & #42064)

☒ Check ☐ Credit Card ☐ Money Order ☐ Other

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
101	740	201	370	Utility filing fee	\$740.00
106	330	206	165	Design filing fee	\$
107	510	207	255	Plant filing fee	\$
108	740	208	370	Reissue filing fee	\$
114	160	214	80	Provisional filing fee	\$
SUBTOTAL (1)					(\$) <u>740.00</u>

2. EXTRA CLAIM FEES

	Extra Claims	Fee from below	Fee Paid
Total claims	19	-20** = x	=
Independent Claims	3	-3** = x	=
Multiple Dependent			=

** or number previously paid, if greater; For Reissues, see below

Large Entity Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description
103	18	203	9	Claims in excess of 20
102	84	202	42	Independent claims in excess of 3
104	280	204	140	Multiple dependent claim, if not paid
109	84	209	42	** Reissue independent claims over original patent
110	18	210	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2)

(\$) .00

3. ADDITIONAL FEES


Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
105	130	205	65	Surcharge-late filing fee or oath	\$
127	50	227	25	Surcharge-late provisional filing fee or cover sheet	\$
139	130	139	130	Non-English specification	\$
147	2,520	147	2,520	For filing a request for reexamination	\$
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	\$
113	1,840 *	113	1,840*	Requesting publication of SIR after Examiner action	\$
115	110	215	55	Extension for reply within first month	\$
116	400	216	200	Extension for reply within second month	\$
117	920	217	460	Extension for reply within third month	\$
118	1,440	218	720	Extension for reply within fourth month	\$
128	1,960	228	980	Extension for reply within fifth month	\$
119	320	219	160	Notice of Appeal	\$
120	320	220	160	Filing a brief in support of an appeal	\$
121	280	221	140	Request for oral hearing	\$
138	1,510	138	1,510	Petition to institute a public use proceeding	\$
140	110	240	55	Petition to revive - unavoidable	\$
141	1,280	241	640	Petition to revive - unintentional	\$
142	1,280	242	640	Utility issue fee (or reissue)	\$
143	460	243	230	Design issue fee	\$
144	620	244	310	Plant issue fee	\$
122	130	122	130	Petitions to the Commissioner	\$
123	50	123	50	Petitions related to provisional applications	\$
126	180	126	180	Submission of Information Disclosure Statement	\$
581	40	581	40	Recording each patent assignment per property (Times number of properties)	\$40.00
146	740	246	370	Filing a submission after final rejection (37 C.F.R. §1.129(a))	\$
149	740	249	370	For each additional invention to be examined (37 C.F.R. §1.129(b))	\$
Other Fee (specify) _____					\$
Other Fee (specify) _____					\$

** Reduced by Basic Filing Fee Paid

SUBTOTAL (3) \$40.00

SUBMITTED BY

Complete (if applicable)

Typed or Printed Name	Robert E. Bushnell, Esq.	Reg. Number	27,774
Signature		Date	20 February 2002
		Deposit Account User ID	

REB/sb

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.